

**Optical-controlled and Voice-Controlled Optical Fiber  
Skipping-rope**

**BACKGROUND OF THE INVENTION**

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**1 · Field of the Invention**

The present invention related to an optical-controlled and voice-controlled optical fiber skipping-rope; in particular, there is  
10 equipped with a voice-controlled constructional body and an optical-controlled constructional body on either of the two handles of the optical fiber skipping-rope, so that people can grasp the optical fiber skipping-rope and have the optical-controlled and music control effect, enables the broad application of the skipping-rope product,  
15 especially is use to act at night.

**2 · Description of the Prior Art**

General traditional skipping-rope structure that two handles is  
20 made of plastic or wooden, and the connection part between the two handles is mainly made of fiber rope or soft plastic tube. Therefore, people feel dull when using this kind of skipping-rope. Besides, people may consider the security of using the skipping-rope at night; especially the players of skipping-rope are generally children who are  
25 careless about the security.

## SUMMARY OF THE INVENTION

An object of present invention is to provide an optical-controlled and voice-controlled optical fiber skipping-rope, it is the improved  
5 design for the handle and rope of the skipping-rope, which is reflected by one handle with the music-controlling impressing construction body and another handle with the optical-controlling impressing construction body; at the same time, the handle of these two constructional body is connected by a luminescence constructional  
10 body, An object of the present invention which the product provided with the optical-controllability ,security and music-controllability and amusement.

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## **BRIEF DESCRIPTION OF THE DRAWINGS**

The other objects and features of the present invention can be more fully understood by referring to the following  
5 description of preferred embodiments and accompanying drawing, in which:

Fig.1 is a voice-controlled constructional body of the present invention;

Fig.2 is a section drawing according to Fig.1 of the present invention;

10 Fig.3 is an optical-controlled constructional body of the present invention;

Fig.4 is a section drawing according to Fig.3 of the present invention;

Fig.5 is a embodiment drawing of the present invention.

## **15 DESCRIPTION OF THE PREFERRED EMBODIMENT**

The present invention related to an optical-controlled and voice-controlled optical fiber skipping-rope, referring to Fig.6, which mainly including voice-controlled constructional body 1,  
20 optical-controlled constructional body 2 and luminescence constructional body3; wherein, referring to Fig.1 and 2, the voice-controlled constructional body 1 , including upper cover 11 and under cover 12 both forming oval, wherein, the upper cover 11 is equipped in its center with a press hole 111, the side face is equipped  
25 with multiple voice hole 112, under cover 12 is equipped with anterior

and posterior locking holes 121; while the connection part of upper cover 11 and under cover 12 is equipped with button 15, integrated circuit board 16, fixing sleeve head 17, illuminant 18 and double cell 14; wherein, the fixed seat 151 of button 15 is placed on the integrated circuit board 16; while the integrated circuit board 16 is equipped thereon with a buzzer 161 and music chip 162, besides the fixing foot 171 of the fixing sleeve head 17 is placed on the integrated circuit board 16; while the fixing sleeve head 17 is covering a illuminant 18; while the neck 113 formed by the front end of the closing of upper cover 11 and under cover 12, is covering the tapered sleeve head 13 connecting with the luminescence constructional body 3.

Referring to Fig.3 and 4, the optical-controlled constructional body 2, including upper cover 21 and under cover 22 both forming oval , wherein, the upper cover 21 is equipped in its center with a press hole 211, under cover 22 is equipped with anterior and posterior locking holes 221; while the connection part of upper cover 21 and under cover 22 is equipped with button 25, integrated circuit board 26, fixing sleeve head 27, illuminant 28 and double cell 24, wherein, the fixed seat 251 of button 25 is placed on the integrated circuit board 26; while the integrated circuit board 26 is equipped thereon with an optical-controlled chip 261, besides the fixing foot 271 of fixing sleeve head 27 is placed on the integrated circuit board 26; while the fixing sleeve head 27 is covering a illuminant 28; while the neck 212 formed by the front end of the closing of upper cover 21 and lower cover 22, is covering the tapered sleeve head 23 connecting with the

luminescence constructional body 3.

The present invention related to an optical-controlled and voice-controlled optical fiber skipping-rope, referring to Fig.6, it mainly features a music handle, i.e., voice-controlled structure 1; an optical-controlled handle, i.e., the one formed by the connection of the optical-controlled structure 2 and luminescence constructional body 3; when press buttons 15 and 25, This invention may obtain following features of the product that safety warning and amusement and esthetics.

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